

GSFC goal set at \$210,000

Combined Federal Campaign runs through October 8, 1980

This year the GSFC campaign for the Combined Federal Campaign (CFC) of the National Capital Area began on September 8 and ends on October 8. Once again CFC is helping the underprivileged people of the world through its annual solicitation in the Federal government.

Goddard is included in the fund-raising efforts for 212 voluntary health and social service agencies including the United Way of the National Capital Area, the National Health Agencies, the United Black Fund, and the International Service Agencies.

This year Goddard's goal is \$210,000. There is no specific amount employees

have to give. Just specify how much you want to give on your pledge card. Also, specify the assigned identification numbers of the agencies to receive your contribution.

The easiest and most convenient way to give is through the payroll deduction plan. The amount you indicate on your pledge card will be deducted from your paycheck every pay period in 1981. This means that you will be giving over the entire fiscal year in relatively small amounts. This contribution is also tax deductible. Your pay statements are your receipts.

Let's all give for a worthy cause.



President makes appeal for support

"America's character and tradition are deeply rooted in a spirit of neighborliness, of people banding together to do the things they see must be done.

Through the Combined Federal Campaign, Federal employees can show their individual concern for those who need help. This is an opportunity that comes only in a free society.

The Combined Federal Campaign covers in one single drive the campaigns of the United Way, the National Health Agencies, the International Service Agencies, the National Service Agencies and local non-federated voluntary agencies. These agencies help make our world a better place in which to live. They reflect the complex and dynamic vitality of American life, the traditional concern of the American people for the unfortunate, and the genius for voluntary service that has long been our pride and our strength.

The Combined Federal Campaign is a fine vehicle for expressing the American tradition of neighborliness and service. Let me urge you to continue this tradition through your contributions to the Combined Federal Campaign."

Jimmy Carter

Inside

NASA executives honored by President.

What is your CD Quotient?

NASA launches geosynchronous GOES-4 satellite

The first U.S. Satellite capable of near-continuous monitoring of atmospheric water vapor and temperatures was launched at 6:27 p.m., September 9 from NASA's Kennedy Space Center in Florida.

Data collected will be used to analyze

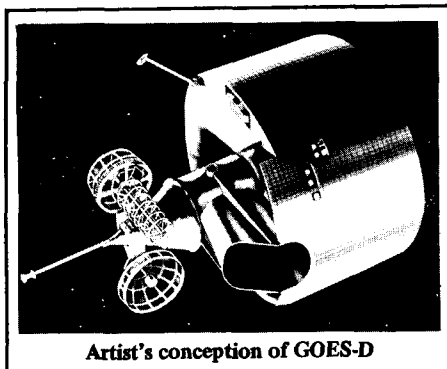
The satellite is the first to be put into orbit as a joint operational research mission. NASA will use the GOES-D that will be in a geosynchronous orbit at 22,000 miles.

Weather forecasters and other scientists will use the data the satellite gathers to study severe storms and storm-spawned phenomena such as hail, flash floods and tornados.

Once in orbit, the satellite was renamed GOES-4. It is equipped with a new type of radiometer that provides the traditional imagery of the earth's surface and cloud cover used by forecasters with NOAA's National Weather Service.

Additionally, the instrument, a Visible Infrared Spin-Scan Radiometric Atmospheric Sounder (VAS), will record atmospheric temperatures at varying levels and is expected to monitor the amount,

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Artist's conception of GOES-D

storms and the short-lived weather phenomena they produce, Commerce Department's National Oceanic and Atmospheric Administration (NOAA) officials said.

NASA Career executives honored

Twenty-four NASA employees were honored as recipients of two Presidential Ranks—Distinguished Executive, for extraordinary accomplishment, and Meritorious Executive, for sustained accomplishment—at a ceremony Sept. 10 at NASA Headquarters.

These Ranks are awarded by the President, to career federal employees in the Senior Executive Service, whose performance has been exceptional for a period of several years. The Ranks were authorized in the Civil Service Reform Act of 1978.

The NASA Distinguished Executives, whose award carries a lump sum payment of \$19,517, are: Dr. Anthony J. Calio, Headquarters; Dr. Christopher C. Kraft Jr., Johnson Space Center, Houston;

William E. Lilly, Headquarters; and Dr. William R. Lucas, Marshall Space Flight Center, Huntsville, Ala.

The NASA Meritorious Executives, whose award carries a lump sum payment of \$10,000, are: Stuart J. Evans, Gerald D. Griffin, Dr. Harriett G. Jenkins, Edwin C. Kilgore, Gerald J. Mossinghoff, John E. O'Brien, Robert E. Smylie, Dr. Walter C. Williams and John F. Yardley, all of Headquarters; Clarence A. Syvertson of Ames Research Center, Mountain View, Calif.; Dr. Frank B. McDonald and A. Thomas Young of Goddard Space Flight Center, Greenbelt, Md.; Dr. Maxine A. Faget and Eugene F. Kranz of Johnson; Richard G. Smith of Kennedy Space Center, Fla.; Dr. Donald

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Missions Operations Division powers down 3 computers

Pictured above as Mr. Schumacher turns off the 930 computer for the last time are: (Left to right) Richard Schumacher, control center operations manager; Robert Lively, head, control center operations section; Paul Ondrus, code 511 systems integration engineer; Chuck Rounds, BEFC control center manager; and George Harris, head, mission operations division.

The Missions Operations Division reached a significant milestone on July 30th when the first of three aged XDS-930 computers in the Multisatellite Operations Control Center

(MSOCC-I) was powered down and removed from service to make room for new replacement Precision Data Products (PDP) 11/70 systems.

The 930 computers have been in continuous service for support of satellite operations since 1967. The MSOCC-I will eventually house eight of the new PDP 11/70 computers. During the transition, an orderly phase-over is being effected to eliminate equipment downtime and to sustain ongoing operations for ten satellites without significant reduction of support.

The control center provides support of the following satellites: IMP-8, the ISEE's,
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Apollo Commemorative Flag presented to Bendix

Center Director A. Thomas Young presented a NASA Apollo Commemorative Flag to Murray Weingarten, president of the Bendix Field Engineering Corporation (BFEC) last month. Attending the presentation were (from left) Walter La Fleur, GSFC deputy director of networks; Richard S. Sade, GSFC director of networks; Young; Weingarten; and Tecwyn Roberts, NASA resident representative to BFEC.

The presentation was made to BFEC in recognition of the company's service to Goddard, which helped "pioneer man's path to the Moon in NASA's Apollo program." The commemorative flag presented to BFEC was carried to the Moon aboard the Apollo XVII spacecraft December 7-19, 1972.

"This flag is the symbol of the national commitment to space," Young said. He also said, "For over 20 years, NASA Goddard has been in partnership with Bendix in conducting a great human endeavor, the exploration and utilization of space. Bendix has upheld that partnership in an outstanding manner."

BFEC currently provides support to NASA's Spaceflight Tracking and Data Network and to the Mission Operations Support Program.

MICROWAVE DEVICES in CIRCUITS COURSE: A series of seven lectures, sponsored by the Washington Chapter of IEEE-MTTs, on topics such as passive components, S-parameter design, FETs, IMPATTs, Gunn devices, monolithic microwave circuits, and tubes. Held the second Tuesday of each month beginning October 14, 1980. For registration information, call John Jacobi, (301) 427-5125/5187/5255, or write P.O. Box 924, Bowie, MD 20715. Call EX 6716. Jim Shiue, for registration form.

People

Compute your Career Development Quotient

CDC gears up for fall and winter activities

How long have you been in your present job? Have you become indifferent towards your work? Do you wonder about asking for more — or less — responsibility? Have your personal career goals become 'fuzzy'? Perhaps the Goddard Career Development Center can help.

Housed in a new location, the Career Development Center is gearing up for a busy fall and winter schedule of activities designed to serve all Goddard employees. Moving day was in July. Formerly located in building 99, the Career Development Center and all its services are now on the second floor of building 1, rooms 237 and 239.

The Career Resource Center is convenient and open to all employees from 9 A.M. to 3 P.M., Monday thru Friday. For do-it-yourselfers, the Career Resource Center contains a series of self-managed activities which, if followed from Station A to C, can lead the user through a complete career inventory to an individualized career action plan. A library of books relating to all aspects of work life and to retirement is available.

For employees who prefer to talk one-on-one about career issues, confidential, professional career counseling is available by appointment.

For many employees, the stimulation of a small group discussion provides the optimum learning environment for career development or change. Seminars in career issues and in retirement planning will be scheduled throughout the fall and winter.

Can the Career Develop-

ment Center help you? Why not take a first step toward a career checkup by computing the following Career Development Quotient.

* CAREER DEVELOPMENT QUOTIENT

1. How long have you been in your present job?

1-5 years
5-10 years
10 or more years

2. Do you think about making a career/job change?

rarely
sometimes
frequently

3. Can you describe your career/job goals for a year from now?

yes
no

4. Can you detail the work assignments necessary to reach that goal?

yes
no

5. Can you identify other career opportunities that would fit your skills/abilities?

yes
no

6. Do you feel that you could be contributing at a greater level in your position?

yes
no

7. Which of the following motivators are being met in your

present job?

Recognition
Promotion
Job Security
Professional Growth
Opportunity to Learn
Stimulating Associates
Opportunity to Make
Decisions

Enhanced Reputation Outside of Work
Challenge

8. Have you fulfilled the career aspirations you had when you first began your career?

yes
no

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R. E. Smylie (left) presents the certificate to Tecwyn Roberts, recipient of a Distinguished Service Award.

For the past 15 years Mr. Tecwyn Roberts has been Director and Manager of the Goddard Space Flight Center's global tracking and communications network supporting NASA manned and unmanned low earth orbiting flight programs. He exemplified the finest management styles and techniques in the direction of the large and complex technical organization required to direct this activity.

Mr. Roberts led the engineering effort that resulted in the highly successful Manned Space Flight Network support critical to the early Apollo lunar missions. He then exhibited a spectrum of engineering, operations, and management talents as he played the leading role in conceiving, developing and successfully managing the operations of the Spaceflight Tracking and Data Network.

Under his direction, the Network has successfully supported major flight projects such as Apollo, Skylab, Landsat, Nimbus, ISEE, and IUE, to name a few.

The global nature of the Network requires heavy involvement with foreign and other U.S. governmental agencies. Mr. Roberts' skill in working and negotiating with these diverse groups has resulted in his reputation for fairness, objectivity, and integrity while at the same time insuring that the best interests of NASA are maintained.

Answers: Compute your CD Quotient

Use the following score points to compute your Quotient.

- | | |
|---|----------|
| 1. 1-5 years | 6 points |
| 5-10 years | 4 points |
| 10-or more | 2 points |
| | |
| 2. rarely | 6 points |
| sometimes | 4 points |
| frequently | 2 points |
| | |
| 3. yes | 4 points |
| no | 2 points |
| | |
| 4. yes | 4 points |
| no | 2 points |
| | |
| 5. yes | 4 points |
| no | 2 points |
| | |
| 6. yes | 2 points |
| no | 4 points |
| | |
| 7. For each item checked assign a score of 2. | |
| | |
| 8. yes | 4 points |
| no | 2 points |

YOUR QUOTIENT

35 or above - You're on the Right Road

25-35 - Rough Road Ahead - your supervisor can help

Below 25 - Road Block - we can help.

Call X6703 or visit the Career Development Center.



Keep the Center in touch
with what you are doing.

Mail your story to the
Goddard News, Code 202,
or call the Editor at 344-8103

GOES

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distribution and movement of water vapor at various altitudes.

Initially, NASA will use the spacecraft to verify the VAS capabilities. Later, it will replace one of NOAA's existing GOES satellites.

NOAA has operated geostationary satellites for environmental monitoring since 1974. These spacecraft orbit at a speed and altitude which keeps them continually over the same point above the equator, repetitively viewing one-third of the earth's surface. Two are operational now — one over northern Peru, and the other over the central Pacific. Each one provides new imagery every 30 minutes, or more frequently if desired.

Radiometers on the present GOES

spacecraft detect and measure the intensity of reflected sunlight, and, in a single band, can sense a small portion of the heat — or infrared — energy radiated by the earth and its cloud cover.

The VAS radiometer also detects and measures reflected sunlight, and can sense infrared energy in 12 bands. This expanded capability is expected to give the instrument its "sounding" ability — the capability of observing water vapor and temperature in a column of air. At its present stage of development, the VAS cannot function in all modes simultaneously.

Both the spacecraft and the VAS instrument were built by the Hughes Aircraft Company. NASA's Goddard Space Flight Center served as project manager for NOAA. The satellite, including VAS, costs about \$20 million. Its launch by a Delta 3914 launch vehicle will cost an additional \$16 million. NASA funded the development of VAS and the unit to be flown on GOES-D, while NOAA is paying for construction and launch costs.

GOES-D will carry aloft three other subsystems. These include a Space Environmental Monitor for measuring solar activity, a Data Collection System for relaying environmental data back to earth from remote land platforms and from other platforms at fixed locations at sea, and a Telemetry, Tracking, and Command subsystem that performs a variety of communications functions.

Presidential Ranks

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P. Hearth and Dr. Richard Travis Whitcomb of Langley Research Center, Hampton, Va.; James E. Kingsbury and Dr. Fridtjof A. H. Speer, Marshall; and Jerry I. Blass of National Space Technology Laboratories, Bay St. Louis, Miss.

Missions Operations

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ATS's, HCMM and SAGE, the DELTA launch vehicles, and is readying for support of GOES-D and DE-A&B. Plans call for the final 930 computer to be removed by October 31, 1980.

GODDARD NEWS

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